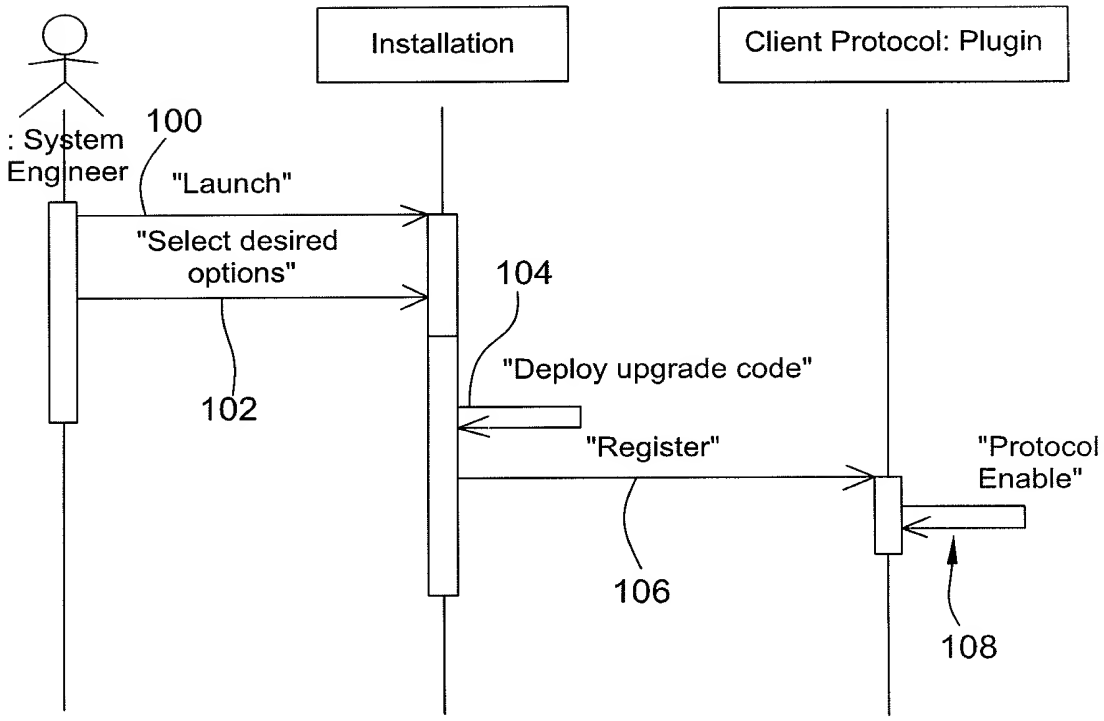
FIG. 4




Add a new Client Protocol Plugin to a Data Access Server

FIG. 5

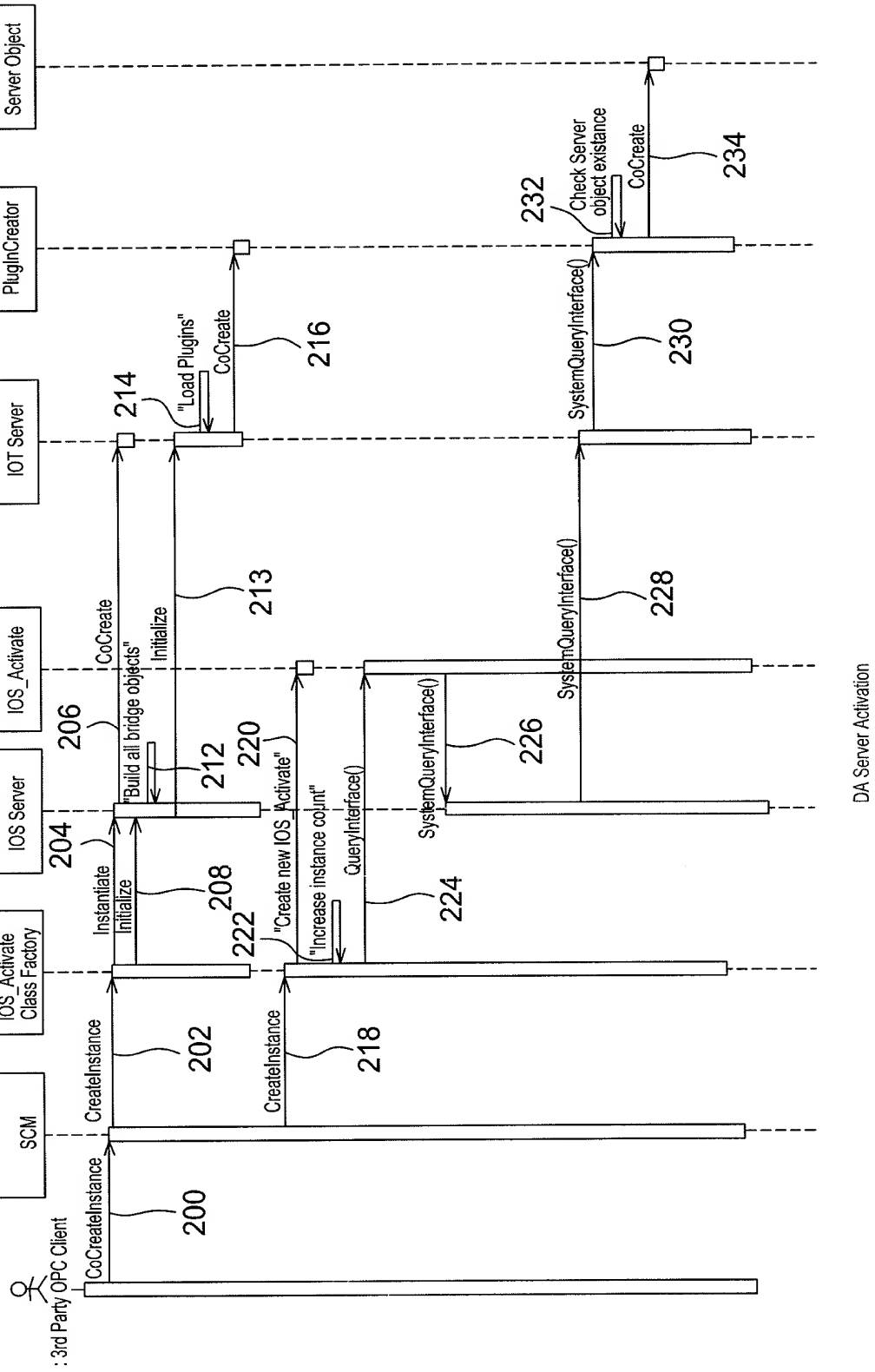
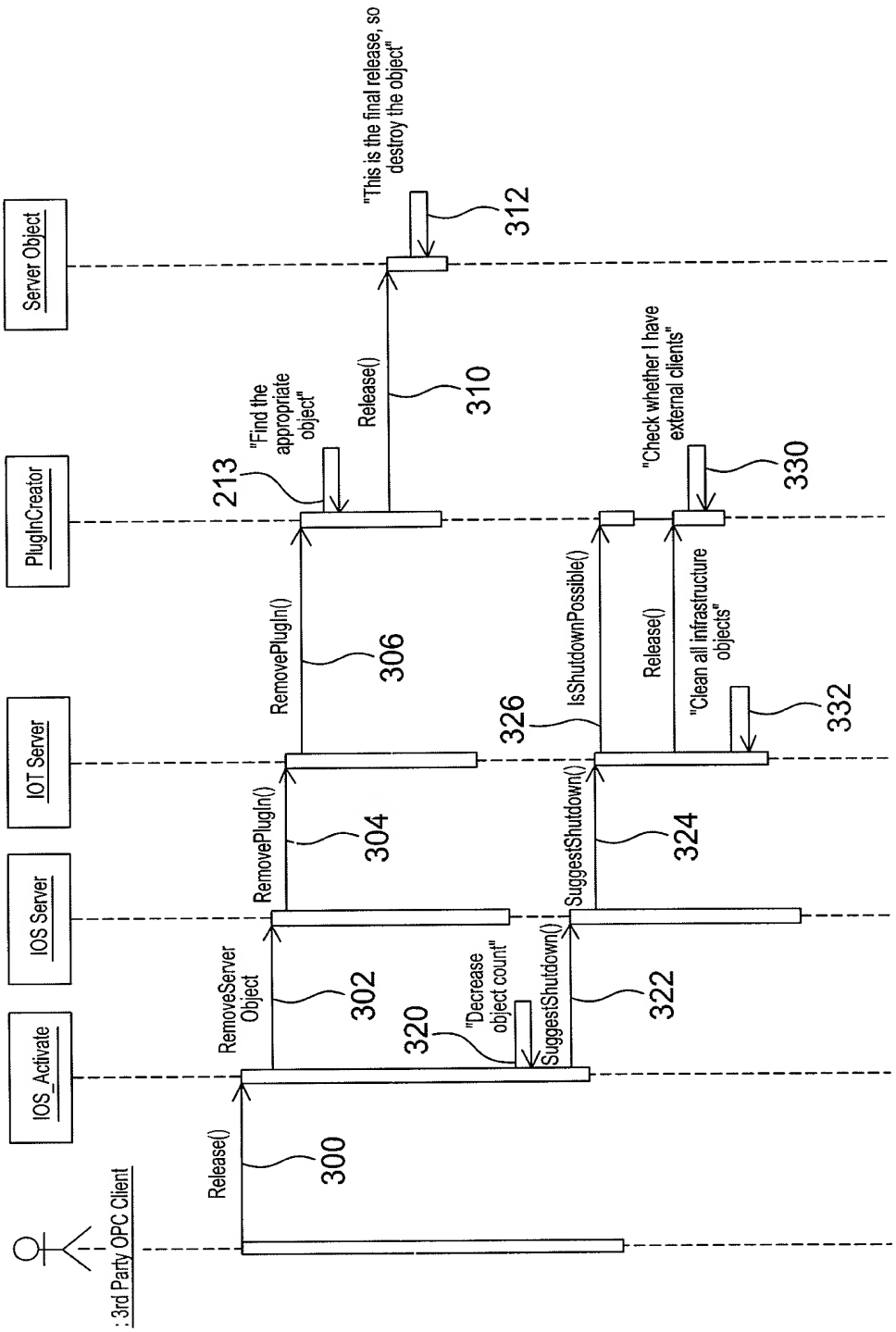

: 3rd Party OPC Client
SCM
IOS Activate Class Factory
IOS Server
IOS_Activate
IOT Server
PlugInCreator
Server Object
CoCreateInstance
CreateInstance
Instantiate
Initialize
"Build all bridge objects"
CoCreate
Initialize
"Load Plugins"
CoCreate
"Create new IOS_Activate"
"Increase instance count"
QueryInterface()
SystemQueryInterface()
SystemQueryInterface()
SystemQueryInterface()
Check Server object existance
CoCreate
200
202
204
206
208
212
213
214
216
218
220
222
224
226
228
230
232
234
DA Server Activation

FIG. 6


: 3rd Party OPC Client
IOS_Activate
IOS Server
IOT Server
PlugInCreator
Server Object
Release()
300
RemoveServer Object
302
RemovePlugIn()
304
RemovePlugIn()
306
"Find the appropriate object"
213
Release()
310
"This is the final release, so destroy the object"
312
"Decrease object count"
320
SuggestShutdown()
322
SuggestShutdown()
324
IsShutdownPossible()
326
"Check whether I have external clients"
330
Release()
"Clean all infrastructure objects"
332
DA Server Shutdown - Internal cleanup

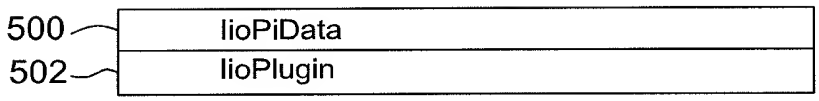



FIG. 8 (Plugin Interfaces)

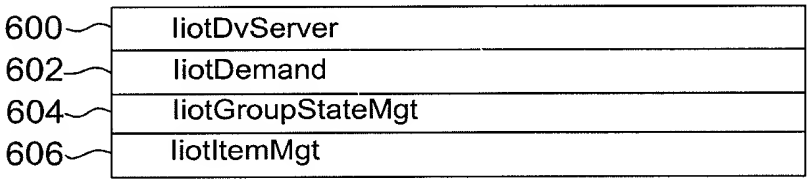



FIG. 9 (DAS Engine Interfaces)